WBS06 workshop: Basic science

Gliopathy in pain: role in neural sensitization

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SCIENTIFIC PROGRAMME

Session details

Workshop: Basic Science

GLIOPATHY IN PAIN: ROLE IN NEURAL SENSITIZATION

Hall H Date: Friday, September 8, 2017 From: 16:30 To: 18:00

Chair: Stefania Ceruti, Italy

Chair: Parisa Gazerani, Denmark

16:30 - 18:00 **SUMMARY: Our symposium is aimed at providing an updated overview of the role of satellite glial cells modulating neuronal sensitization in peripheral ganglia under painful conditions, and to propose this c population as a new target for the development of innovative pharmacological approaches. In fact, SG around the somata of sensory neurons, altogether constituting a morphological and functional unit. SC continually monitor the extracellular milieu and exchange information with one another and with neigh neurons. Like other glial cells, SGCs respond to nerve injury or to inflammatory stimuli by undergoing parallel to increased expression and release of pro-inflammatory mediators and neurotransmitters, whi either autocrinally or paracrinally. Altogether, these changes lead to increased excitability of both prim afferents and central nervous system neurons, and the development of hyperalgesia and allodynia. Thi that targeting SGCs represents a novel opportunity to tackle various pathological conditions where the activation has been demonstrated, spanning from chronic and neuropathic pain to visceral pain, post-I neuralgia, and other CNS disorders. In order to understand the complex network of signaling molecule pathways that are involved in SGC-to-SGC and in SGC-to-neuron communication within sensory gangl will summarize physiopathological roles of SGCs within dorsal root ganglia, Dr. Gazerani will focus on signaling transmitters for cross talk in sensory ganglia (Glutamate, NO, Fractalkine), and Dr. Ceruti will current knowledge on the role of the purinergic system in modulating peripheral trigeminal nociceptior association with migraine.**

16:30 - 17:00 **SATELLITE GLIAL CELLS IN DORSAL ROOT GANGLIA: MUCH MORE THAN JUST "GLUE"**

Fani Lourenca Moreira Neto, Portugal

17:00 - 17:30 **SIGNALING TRANSMITTERS FOR SATELLITE GLIA-NEURON CROSS TALK WITHIN SENSORY GANGLI**

Parisa Gazerani, Denmark

17:30 - 18:00 **GLIOPATHY IN PAIN: ROLE IN NEURAL SENSITIZATION**

Stefania Ceruti, Italy

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